IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Previously Presented) A method of storing a spreadsheet file comprising: storing on a first record property data of said spreadsheet file;

storing on a second record access data of said spreadsheet file for indexing of spreadsheet cell data;

storing on a third record said spreadsheet cell data for a plurality of spreadsheet cells.

- 2. (Original) The method of claim 1 wherein said property data includes the number of rows and cells in said spreadsheet file.
- 3. (Original) The method of claim 2 wherein said property data includes the name and version of the spreadsheet file.
- 4. (Original) The method of claim 3 wherein said property data includes date information of said spreadsheet file.
- 5. (Original) The method of claim 3 wherein said property data includes default data formatting information.
- 6. (Original) The method of claim 1 wherein said access data includes the number of columns of said spreadsheet file accessed by said second record.

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- 7. (Original) The method of claim 6 wherein said access data includes cell IDs of cells in said columns accessed by said second record.
- 8. (Original) The method of claim 7 further including a plurality of records storing access data, wherein each of said plurality of records storing access data accesses a subset of columns of said spreadsheet file.
- 9. (Original) The method of claim 1 wherein said cell data includes the number of cells stored in said third record.
- 10. (Original) The method of claim 9 wherein said cell data includes the data values stored in cells stored in said third record.
- 11. (Original) The method of claim 10 further including a plurality of records storing cell data, each of said plurality of records storing cell data storing a subset of the cells of said spreadsheet file.
- 12. (Previously Presented) A data processing apparatus for a storing a spreadsheet file comprising:

a property record for storing property data of said spreadsheet file;

an access record coupled to said property record for storing access data of cells of said spreadsheet file, wherein said access data allows for indexing of spreadsheet cell data;

a cell data record coupled to said access record for storing said spreadsheet cell data for a plurality of spreadsheet cells.

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- 13. (Original) The apparatus of claim 12 wherein said property data includes the number of rows and cells in said spreadsheet file.
- 14. (Original) The apparatus of claim 13 wherein said property data includes the name and version of the spreadsheet file.
- 15. (Original) The apparatus of claim 14 wherein said property data includes date information of said spreadsheet file.
- 16. (Original) The apparatus of claim 14 wherein said property data includes default data formatting information.
- 17. (Original) The apparatus of claim 12 wherein said access data includes the number of columns of said spreadsheet file accessed by said access record.
- 18. (Original) The apparatus of claim 17 wherein said access data includes cell IDs of cells in said columns accessed by said second record.
- 19. (Original) The apparatus of claim 18 further including a plurality of records storing access data, wherein each of said plurality of records storing access data accesses a subset of columns of said spreadsheet file.
- 20. (Original) The apparatus of claim 12 wherein said cell data includes the number of cells stored in said cell data record.
- 21. (Original) The apparatus of claim 20 wherein said cell data includes the data values stored in cells stored in said cell data record.

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- 22. (Original) The apparatus of claim 21 further including a plurality of records storing cell data, each of said plurality of records storing cell data storing a subset of the cells of said spreadsheet file.
- 23. (Previously Presented) A data processing apparatus of storing a spreadsheet file comprising:

means for storing on a first record property data of said spreadsheet file;

means for storing on a second record access data of said spreadsheet file for indexing spreadsheet cell data;

means for storing on a third record said spreadsheet cell data for a plurality of spreadsheet cells.

- 24. (Original) The apparatus of claim 23 wherein said property data includes the number of rows and cells in said spreadsheet file.
- 25. (Original) The apparatus of claim 24 wherein said property data includes the name and version of the spreadsheet file.
- 26. (Original) The apparatus of claim 25 wherein said property data includes data information of said spreadsheet file.
- 27. (Original) The apparatus of claim 25 wherein said property data includes default data formatting information.

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- 28. (Original) The apparatus of claim 23 wherein said access data includes the number of columns of said spreadsheet filed accessed by said second record.
- 29. (Original) The apparatus of claim 28 wherein said access data includes cell IDs of cells in said columns accessed by said second record.
- 30. (Original) The apparatus of claim 29 further including a plurality of records storing access data, wherein each of said plurality of records storing access data accesses a subset of columns of said spreadsheet file.
- 31. (Original) The apparatus of claim 23 wherein said cell data includes the number of cells stored in said third record.
- 32. (Original) The apparatus of claim 31 wherein said cell data includes the data values stored in cells stored in said third record.
- 33. (Original) The apparatus of claim 32 further including a plurality of records storing cell data, each of said plurality of records storing cell data storing a subset of the cells of said spreadsheet file.
 - 34. (Previously Presented) A computer program product comprising:

a computer usable medium having a computer readable program code means embodied in said medium for causing a computer to store a spreadsheet file, said computer readable program code means comprising:

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computer readable program code means for causing a computer to store on a first record property data of said spreadsheet file;

computer readable program code means for causing a computer to store on a second record access data of said spreadsheet file, wherein said access data allows for indexing of spreadsheet cell data;

computer readable program code means for causing a computer to store on a third record said spreadsheet cell data for a plurality of spreadsheet cells.

- 35. (Original) The computer program product of claim 34 wherein said property data includes the number of rows and cells in said spreadsheet file.
- 36. (Original) The computer program product of claim 35 wherein said property data includes the name and version of the spreadsheet file.
- 37. (Original) The computer program product of claim 36 wherein said property data includes date information of said spreadsheet file.
- 38. (Original) The computer program product of claim 36 wherein said property data includes default data formatting information.
- 39. (Original) The computer program product of claim 34 wherein said access data includes the number of columns of said spreadsheet file accessed by said second record.
- 40. (Original) The computer program product of claim 39 wherein said access data includes cell IDs of cells in said columns accessed by said second record.

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- 41. (Original) The computer program product of claim 40 further including a plurality of records storing access data, wherein each of said plurality of records storing access data accesses a subset of columns of said spreadsheet file.
- 42. (Original) The computer program product of claim 34 wherein said cell data includes the number of cells stored in said third record.
- 43. (Original) The computer program product of claim 42 wherein said cell data includes the data values stored in cells stored in said third record.
- 44. (Original) The computer program product of claim 43 further including a plurality of records storing cell data, each of said plurality of records storing cells data storing a subset of the cells of said spreadsheet file.